

What is claimed is:

1. An information processing apparatus which creates and executes a thread by request from an application program, comprising:

5           a thread-creation-request receiving unit which receives from said application program a request for creation of a thread;

          a thread creation unit which creates said thread in response to said request received by said thread-creation-request receiving unit;

          a first thread execution unit which executes said thread created by said thread creation unit;

          a thread-creation-request holding unit which holds said request received by said thread-creation-request receiving unit, when said thread creation unit fails in creation of said thread; and

          a second thread execution unit which executes processing corresponding to said request held by said thread-creation-request holding unit.

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2. An information processing apparatus according to claim 1, wherein, when execution of another thread by said first thread execution unit is completed, said second thread execution unit executes said processing corresponding to said request held by said thread-creation-request holding unit, by reusing an arrangement which is provided for supporting and managing said another thread,

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without newly creating a thread in response to said request held by said thread-creation-request holding unit.

3. A method for creating and executing a thread by request from an application program, comprising the steps of:

(a) receiving from said application program a request for creation of a thread;

(b) creating said thread in response to said request received in said step (a);

(c) executing said thread created in said step (b);

(d) holding said request received in said step (a) when the operation of said step (b) fails; and

(e) executing processing corresponding to said request held in said step (d).

4. A method according to claim 3, wherein the operation in said step (e) is performed when execution of another thread is completed, by reusing an arrangement which is provided for supporting and managing said another thread, without newly creating a thread in response to said request held in said step (d).

5. A computer-readable storage medium storing a program which is to be executed by a computer, and creates and executes a thread by request from an application

program, said program makes said computer realize:

a thread-creation-request receiving unit which receives from said application program a request for creation of a thread;

5 a thread creation unit which creates said thread in response to said request received by said thread-creation-request receiving unit;

a first thread execution unit which executes said thread created by said thread creation unit;

10 a thread-creation-request holding unit which holds said request received by said thread-creation-request receiving unit, when said thread creation unit fails in creation of said thread; and

a second thread execution unit which executes  
15 processing corresponding to said request held by said thread-creation-request holding unit.

6. A computer-readable storage medium according to claim 5, wherein, when execution of another thread by said  
20 first thread execution unit is completed, said second thread execution unit executes said processing corresponding to said request held by said thread-creation-request holding unit, by reusing an arrangement which is provided for supporting and managing said another thread,  
25 without newly creating a thread in response to said request held by said thread-creation-request holding unit.